

# [METHOD OF MOTION DETECTION FOR 3D COMB FILTER VIDEO DECODER]

## Abstract

The invention is directed to a method of 3-dimensional (3D) comb filter video decoder. The composite video signal is sampled to obtain multiple sampling data  $F_m P_{x,y}$ , which represents the  $y^{\text{th}}$  pixel of the  $X^{\text{th}}$  line in the  $m^{\text{th}}$  frame, in which  $m$ ,  $x$ ,  $y$  are positive integer. After using  $F_{m+1} P_{x,y}$ ,  $F_m P_{x,y}$ ,  $F_{m-1} P_{x,y}$ , and  $F_{m-2} P_{x,y}$  to judge whether the composite video signal is the motion state or the still state. The motion detection is based on the composite video signal without separation of luma and chroma. As a result, the motion detection can be precisely judged.